



Board of Directors Meeting
Thursday, November 15, 2018
City Council Chambers, Fillmore City Hall
250 Central Avenue, Fillmore, CA 93015

MINUTES **Corrected**

Directors Present

Director Kelly Long, Chair
Director Ed McFadden, Vice Chair/Secretary/Treasurer
Director Carrie Broggie
Director Gordon Kimball
Director Candice Meneghin
Director Glen Pace

Staff Present

Anthony Emmert, Executive Director
Steve O'Neill, Legal Counsel
Kris Sofley, interim executive director

Public Present

Bryce Bannatyne, Rancho Resplendor
Emilio Cervantes, Jr., Newhall Land & Farming
Dan Detmer, UWCD Supervising Hydrogeologist
John Lindquist, UWCD Senior Hydrogeologist
Tim Moore, DBS&A
Ann Ohlankum, CFROG
Steve Zimmer

1. Call to Order 6:03p.m.

Chair Long called the meeting to order at 6:03p.m. She addressed the many challenges the community has faced in the days leading up to the meeting – the Woolsey and Hill fires and the Borderline shooting – and asked those present to observe a moment of silence in memory of those who lost their lives or loved ones as well as in honor of the first responders who have been protecting lives and property. After the moment of silence, Chair Long asked Director Kimball to lead the group in the Pledge of Allegiance.

2. Pledge of Allegiance

Director Kimball led the Pledge of Allegiance

3. Directors Roll Call

Directors Pace, Kimball, Broggie, Long, McFadden and Meneghin all answered the roll call.

4. Public Comments

Chair Long asked if there were any public comments for the Board. None were offered.

5. Approval of Agenda

Motion

Chair Long asked for the agenda to be amended so that item 9B could be discussed before item 9A, for logistical purposes. Motion to approve the agenda with the change in flipping the order of items 9A and 9B, Director Broggie; Second, Director McFadden. Voice vote: six ayes (Broggie, Kimball, Long, McFadden, Meneghin, Pace); none opposed. Motion carries unanimously 6/0/0.

6. Director Announcements/Board Communications

Director Pace reported his participation in the joint Fillmore and Piru Basin Pumpers Associations meeting. He said the members of the two groups expressed their support for contributing to a fund that would provide for buying State Water, when available, through the GSA and UWCD. He added that it would have to come through the GSA's Board, which would have to begin saving up through an additional assessment, and spread across all users as the Pumpers' associations has no mechanism for collecting funds.

Director Meneghin said that there may be grant applications through the Integrated Regional Water Management (IRWM) application and that the Santa Clara River Watershed Coalition is packaging various projects together with hopes of making the short list. It may be possible to coordinate State Water efforts among that group.

Director McFadden reported that he attended the AWA VC WaterWise Breakfast which featured the three General Managers from United, Calleguas and Casitas. Mauricio Guardado spoke about Article 21 water purchases and that 300,000 acre feet of water was available from Northern California last year if the participants had been ready with the money to purchase the surplus water when it's available. Director Pace asked if that could be included as part of the GSP projects.

Chair Long said that State Water purchases for southern California were included in the Ventura County General Plan as one of the ways to get water into the County. She also stated that her office was contacted by DWR to confirm that she was, in fact, the chair of the FPB GSA and that DWR was still working on the grant process and Basin Boundary Modifications.

Director Broggie told the group that this would be her last meeting as on December 12, Fillmore's new City Council members would be installed and that the City would be

appointing a new representative to the Board. She said that it has been her honor and privilege to serve on the Board and involved with all of the wonderful directors and that she has learned so much from the experience.

Chair Long thanked her for her service and told her she would be missed.

7. Executive Director Update

Information Item

Mr. Emmert provided a brief update to the Board regarding his activities since the previous Board meeting of October 25, 2018. He recalled the process for moving forward on the selection of candidates for the GSP consultant and said the two firms are both well qualified for the Board's consideration. He gave a brief update on the Basin Boundary Modification, describing DWR's "strong direction" to change some of the boundary modifications previously submitted. DWR staff in Sacramento are reviewing the changes now and, once the changes are confirmed, the FPB GSA will have to initiate the public process to explain the changes, reach out to the stakeholders whose wells have been newly added to the Agency's boundary area, and make sure everyone is aware of inclusion in the FPB GSA. He also stated that the documents for the grant agreement are being looked over and that he hopes to have a final agreement soon.

8. CONSENT CALENDAR

Motion to approve Consent Calendar, Director McFadden; Second, Director Broggie. Chair Long asked if the Board members had any questions or comments, none were offered. Voice vote: six ayes (Broggie, Kimball, Long, McFadden, Meneghin, Pace); none opposed; none absent. Motion carries unanimously 6/0/0.

8A Approval of Minutes

The Board will consider approving the Minutes from the Board Meeting of October 25, 2018.

8B Approval of Warrants

The Board will consider approving invoices for the following payments:
Director Candice Meneghin \$230.43 (expense reimbursement)
UWCD \$24,928.48 (quarterly contracted services)

8C Monthly Financial Report

The Board will receive a monthly profit and loss statement and balance sheet for the FPBGSA from UWCD's accounting staff.

9. ACTION ITEMS

9B Report and recommendations from ad hoc committee on potential groundwater consultants for GSP development.

Motion

Recapping the process, Mr. Emmert reminded the Board that the Agency's Request for Proposals (RFP) had been distributed to 59 groundwater consultant firms and that two complete proposals had been received. The ad hoc committee members (Directors McFadden and Meneghin) met with UWCD staff to insure the proposals were complete, and found the candidates to be qualified and the proposal to be thorough, and that both firms are recommended for Board interviews. He said each has different strengths and he is confident the Board has two good candidates to consider.

Chair Long thanked him for his time and effort.

Director McFadden reported that both proposals were very thorough and that the Board has two very well qualified candidates. Director Meneghin added that the criteria were clear and scored accordingly and that both firms warrant interviews.

Motion to interview both candidates, Director Broggie; Second, Director Kimball. Voice vote: six ayes (Broggie, Kimball, Long, McFadden, Meneghin, Pace); none opposed. Motion carries unanimously 6/0/.

9A Board Interviews with Prospective Groundwater Consultants

Motion

The Board received presentations from teams representing Larry Walker Associates and Daniel B. Stephens and Associates (see MINUTES Attachment A).

Daniel B. Stephens and Associates was represented by Tony Morgan, the proposed project manager, who introduced the Board to his team's key personnel, which included Jean-Luc Cartron (decision analysis), Consensus and Collaboration Program of Sacramento State College of Continuing Education (stakeholder engagement), DBS&A's principal in charge Stephen J. Cullen, Bruce Orr of Stillwater (ecosystems) and Tim Moore (hydrogeologist). The team made their presentation from approximately 6:25 to 6:45pm, took questions from the Board from 6:45pm to 7:05pm and provided a summation from 7:05 to 7:10pm.

At approximately 7:18p.m., Larry Walker Associates made its presentation to the Board, with Ashli Desai, the principal in charge, who would lead the effort as a strategic advisor to the team. She introduced Dr. Diana Engle, who would serve as project manager; Laura Foglia, who would serve as assistant project manager; and Georgina King from Montgomery & Associates, who is also a local technical expert with the majority of the projects she has been involved with taking place on the

Santa Clara River. Anthony Hicke of Richard C Slade & Associates would round out the team. At 8:15p.m., Larry Walker Associates' team had concluded its presentation and discussion with the Board.

During the firms' presentations, the Board asked questions and sought clarification from the teams. At the conclusion of their respective presentations, the Board also asked questions regarding the scope of work, ability to work with the Board and United staff, previous experience and general strategies for approaching the development of the GSA's two Groundwater Sustainability Plans.

After both presentations, at approximately 8:15p.m., the Board excused the teams from Council Chambers and discussed the qualifications, similarities and differences between the two agencies' approaches to the development of the GSP and proposed costs that each firm had submitted separately from the proposals. Mr. Emmert added that he felt UWCD could easily work with either firm.

Motion to select Daniel B. Stephens and Associates as the Agency's groundwater consultant and authorize the Executive Director to initiate contract negotiations immediately, Director Pace; Second, Director Broggie. Voice vote: six ayes (Broggie, Kimball, Long, McFadden, Meneghin, Pace); none opposed. Motion carries unanimously.

Both teams were then called back into Council Chambers where Chair Long thanked them for their presentations, time and consideration. She said that both firms are extremely well qualified and it was a very tough decision for the Board, but ultimately, the Board elected to go with Daniel B. Stephens and Associates.

Director Broggie added that as a council member for the City of Fillmore, this has been one of the harder decisions she has had to make and gave kudos to both groups for the phenomenal presentations. Director McFadden echoed that sentiment, stating that it was a tough choice, and both groups did very well. Director Pace said the Agency couldn't go wrong with either choice; and he appreciated being able to choose between two great options. Chair Long added that water is a small world and thanked both groups for their efforts.

10. INFORMATION ITEMS

10A Basin Boundary Modification Update

Information Item

UWCD's Supervising Hydrogeologist Dan Detmer updated the Board on recent edits to the proposed Basin Boundary Modifications as requested by the Department of Water Resources review panel. Based on DWR's suggested changes, additional alluvial deposits around the margins of the basins were mapped

as part of the basins. The larger changes to the basin boundaries (on the valley floor at the Piru-Fillmore and Fillmore-Santa Paula basin boundaries) remain unchanged from the proposal submitted in July 2018. The proposed boundaries and technical justifications are available for review on the DWR website. Once DWR provides direction or approval, stakeholder engagement can be re-initiated. Chair Long stressed how important it was that the whole process be transparent to stakeholders.

FUTURE TOPICS FOR BOARD DISCUSSION

Director Kimball and Chair Long wanted to address stakeholder engagement to get out in front of the DWR changes to the Basin Boundary Modifications. Director Pace said the Board may want to wait awhile to see if the suggested changes were approved, and then the Board can deal with it accordingly. He also mentioned preparing for the next fiscal year budget and the final contract with the groundwater consultant. Ms. Sofley mentioned that the Board needed to hire an auditor to file annual reports with the County and Secretary of State and also needed to discuss meeting dates for 2019.

ADJOURNMENT 9:05p.m.

The Board will adjourn to the next **Regular Board Meeting** on Thursday, **December 20, 2018** or call of the Chair.

ATTEST:


Kelly Long, Chair, FPB GSA Board of Directors

I certify that the above is a true and correct copy of the minutes of the Fillmore and Piru Basins Groundwater Sustainability Agency's Board of Directors meeting of November 15, 2018.

ATTEST:


Kris Sofley, Clerk of the Board



BOARD MEETING

November 15, 2018 @ 6:00pm

City Council Chambers, Fillmore City Hall

250 Central Avenue, Fillmore, CA 93015

Name: John Lindquist

Name: _____

Organization: UWCA

Organization: _____

Phone: _____

Phone: _____

E-mail: _____

E-mail: _____

Name: BRYCE BANNAYNE

Name: _____

Organization: RANCHO RESPANOR

Organization: _____

Phone: 805.524.5130

Phone: _____

E-mail: RANCHO RESPANOR@hotmail

E-mail: _____

Name: Steve Zimmer

Name: _____

Organization: _____

Organization: _____

Phone: _____

Phone: _____

E-mail: _____

E-mail: _____

Name: EMILIO CERVANTES JR.

Name: _____

Organization: NLF

Organization: _____

Phone: 805-490-0454

Phone: _____

E-mail: emilio.cervantes@fivepoint.com

E-mail: _____

Name: Tim Moore

Name: _____

Organization: DBS&A

Organization: _____

Phone: _____

Phone: _____

E-mail: _____

E-mail: _____



Fillmore and Piru Basins
Groundwater Sustainability Agency

BOARD MEETING

November 15, 2018 @ 6:00pm

City Council Chambers, Fillmore City Hall

250 Central Avenue, Fillmore, CA 93015

Name: Ann Orlan

Organization: CFRDG

Phone: 818 606 2905

E-mail: _____

Name: _____

Organization: _____

Phone: _____

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Organization: _____

Phone: _____

E-mail: _____



November 15, 2018

Groundwater Sustainability Plans Preparation for Fillmore Basin and Piru Basin

Prepared for



PO Box 1110
Fillmore, CA 93016

Prepared by



DBS&A
Daniel B. Stephens & Associates, Inc.

3916 State Street, Suite 1A
Santa Barbara, California 93105

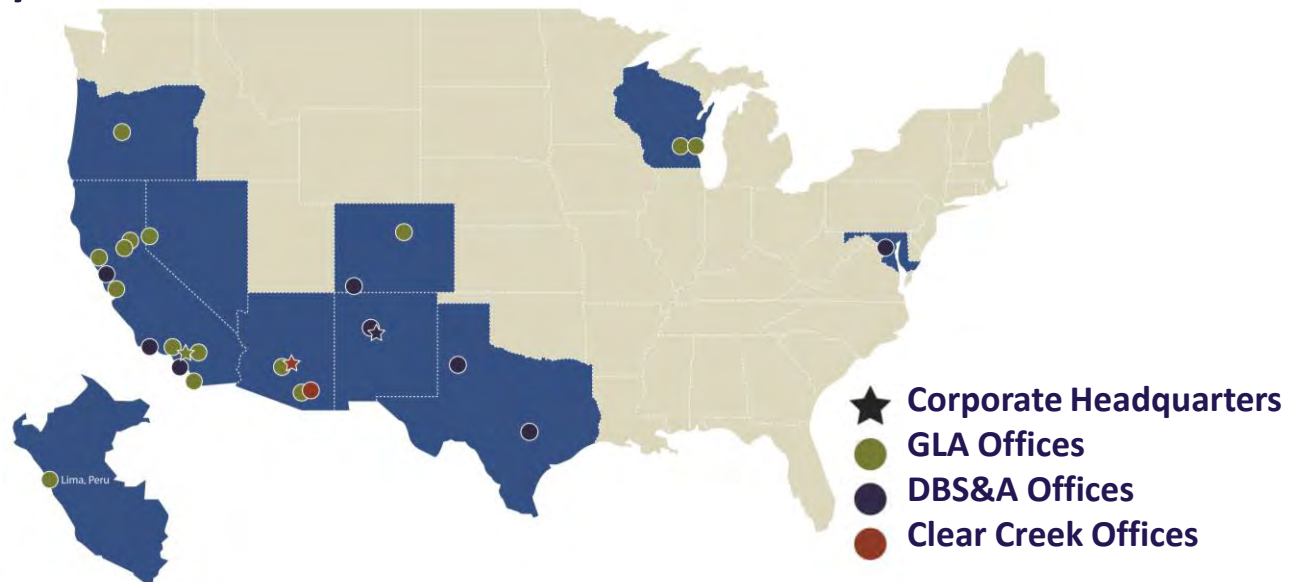
- Prepare compliant GSPs for each of Fillmore and Piru basins
- Submit GSPs to DWR by January 31, 2022 deadline
- Leverage extensive existing data sets
- Focus on critical issues
- Stakeholder support of GSPs / transparent process
- Maintain GSP budget within Prop 1 grant award





Daniel B. Stephens & Associates, Inc.

- Solutions for water, natural resources, and the environment
- A Geo-Logic company
 - 250 employee owners
 - 27 offices



Areas of Expertise

- Water Resources
- Environmental Services
- Expert Litigation Services
- Soil Testing and Research Lab
- Information Solutions
- Engineering



Water Resources

- Water resources planning
- Water supply development
- Water reuse
- Water infrastructure
- Water rights
- Hydrologic analyses
- Water quality investigations
- Watershed management
- Stormwater quality management



Our Team...



DBS&A
Daniel B. Stephens & Associates, Inc.



Stillwater Sciences

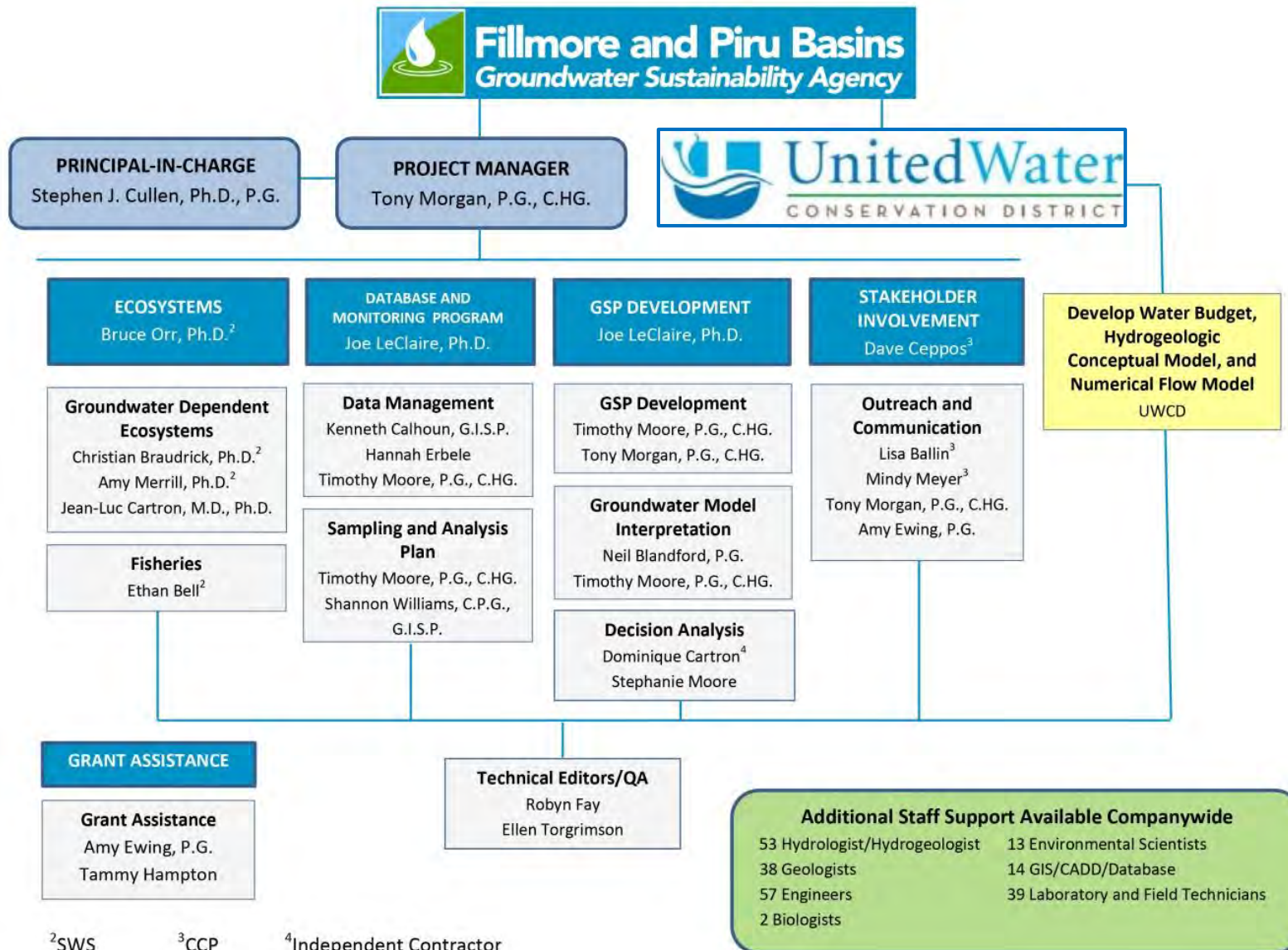
Consensus and
Collaboration Program



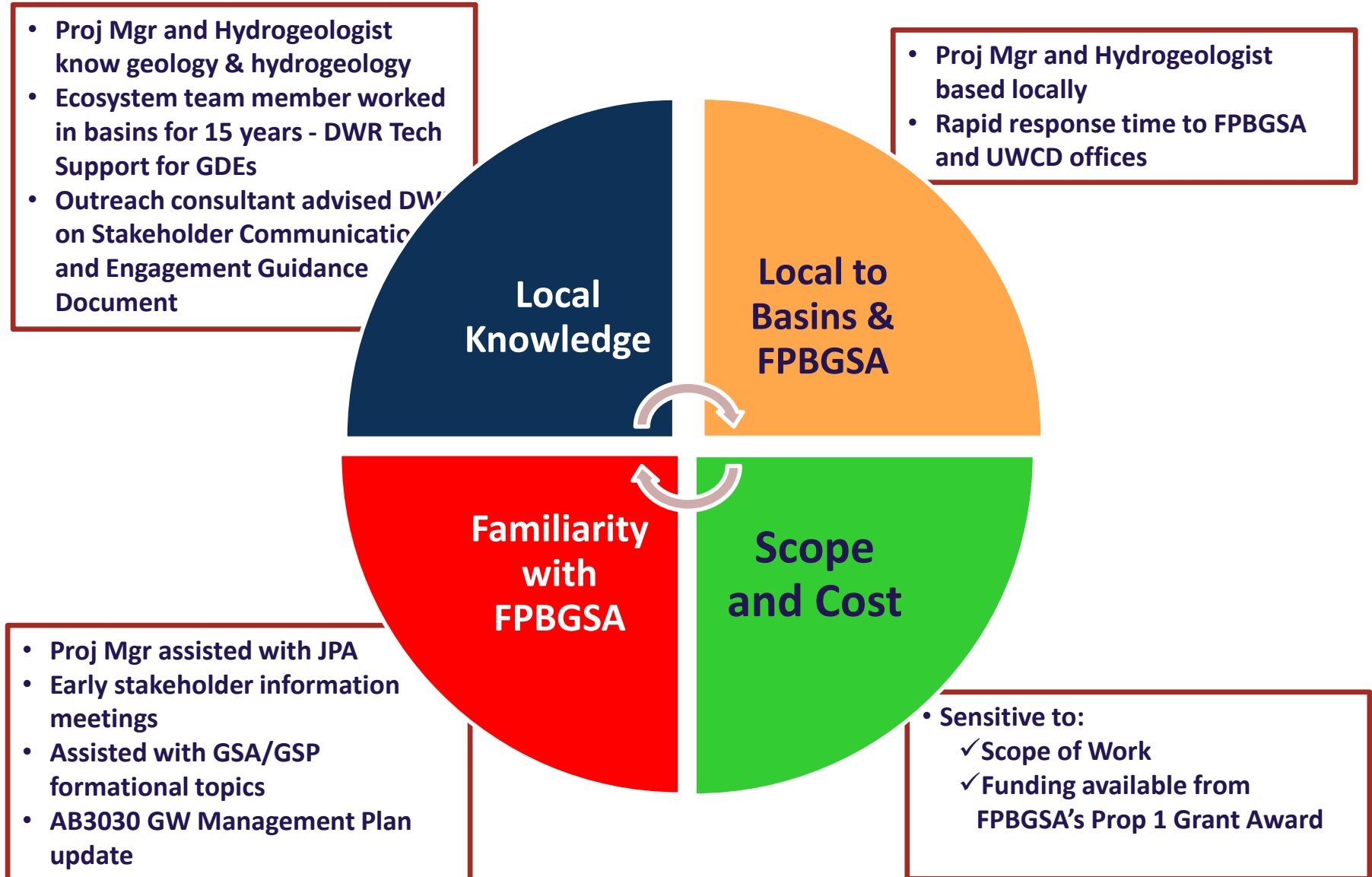
SACRAMENTO STATE
COLLEGE OF CONTINUING EDUCATION



Team Organization Chart



Why choose DBS&A Team?



Approach geared towards the identification of an expeditious, yet technically reasonable and implementable path to sustainability for the Basins. A GSP is not required to be a large document or overly complicated...

Project Goals	Technical Approach
Prepare compliant GSPs for each of Fillmore and Piru basins	Address the items prescribed by DWR in their GSP Preparation Checklist and GSP Annotated Outline guidance documents
Focus on critical issues	Establish critical issues early in process; Use experience and knowledge of team; Stakeholder engagement
Leverage the extensive existing data sets	Use experience and knowledge of team; Coordination with UWCD
Maintain GSP budget within Prop 1 grant award	SOW sensitive to funding available from Prop 1 grant
Stakeholder support of GSPs / transparent process	Stakeholder engagement to identify concerns and solutions; Public Engagement Plan; “decision audit trail”
Submit GSPs to DWR by January 31, 2022 deadline	Timely interaction with UWCD & BOD in accordance with Work Plan



Sustainability Indicators:



Lowering GW Levels



Surface Water Depletion



Degraded Water Quality



Land Subsidence



~~Seawater Intrusion~~



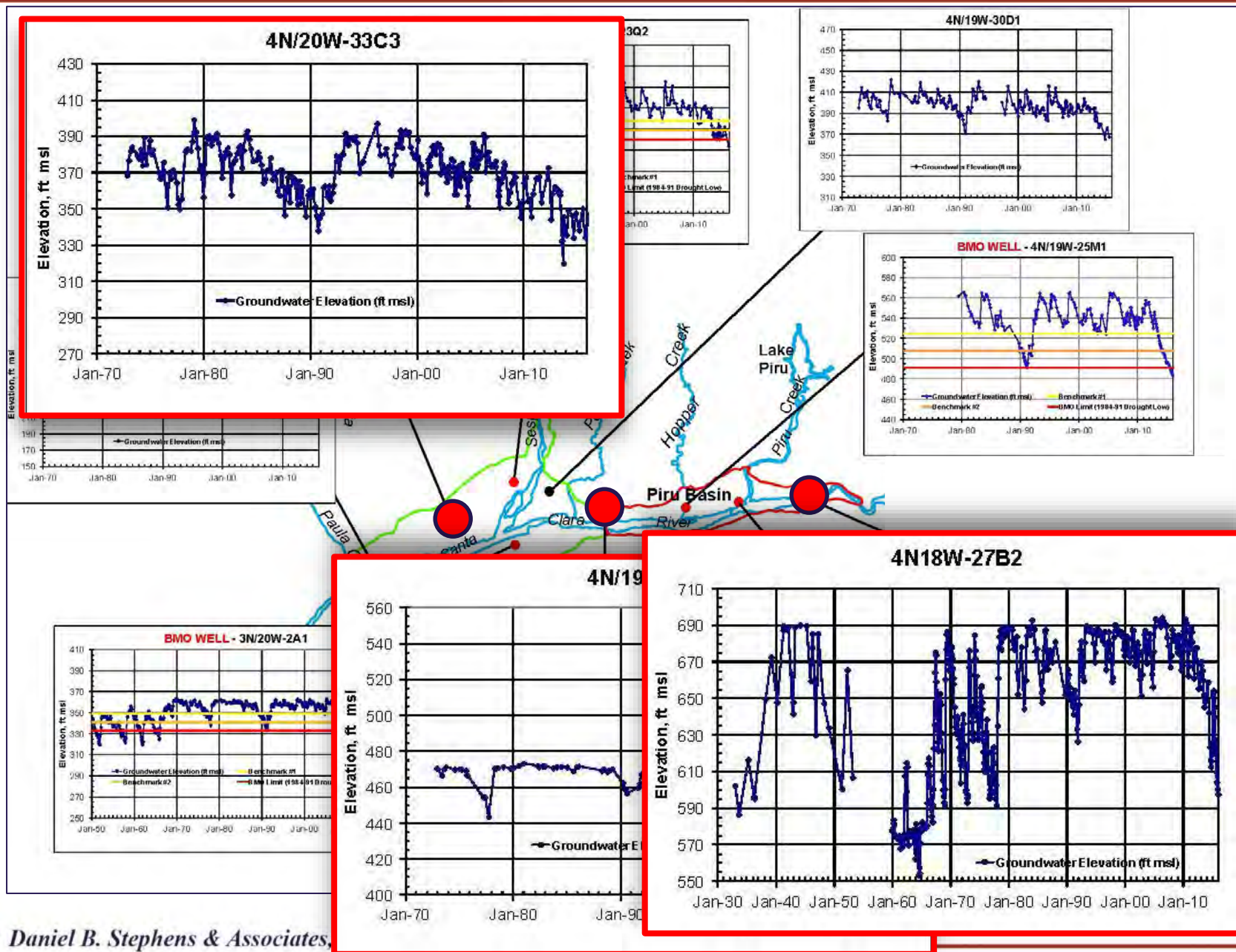
Reduction of Storage

*Tailored to the
critical issues of
the Basins*

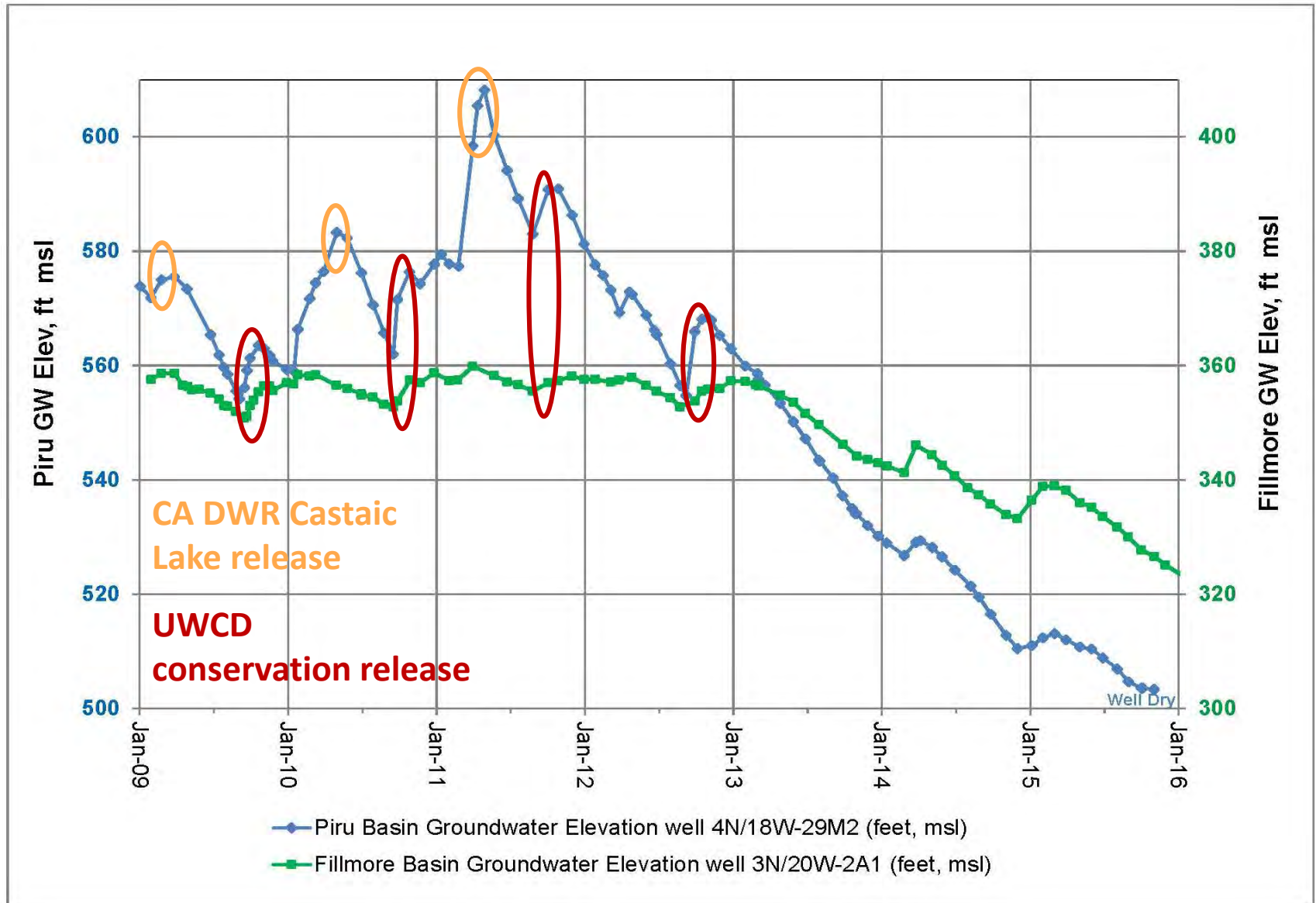
“...avoid significant and unreasonable effects...”



Technical Approach



Groundwater Levels / Projects & Management Actions



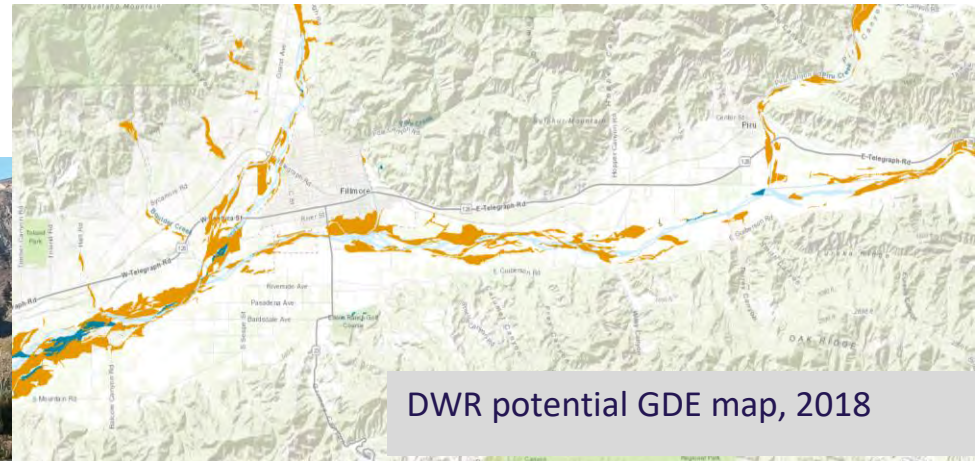
Early and extensive public engagement an essential requirement



Discussing Water Rights, A Western Pastime

Groundwater Dependent Ecosystems

- Our 2006 vegetation map is the foundation of DWR's potential GDE map
- Our Team can leverage 2018 vegetation mapping update in the basins to save costs
- Our experience in the basins allows us to rapidly link groundwater-surface water modeling to vegetation maps, steelhead habitat and passage, and habitat for other listed species



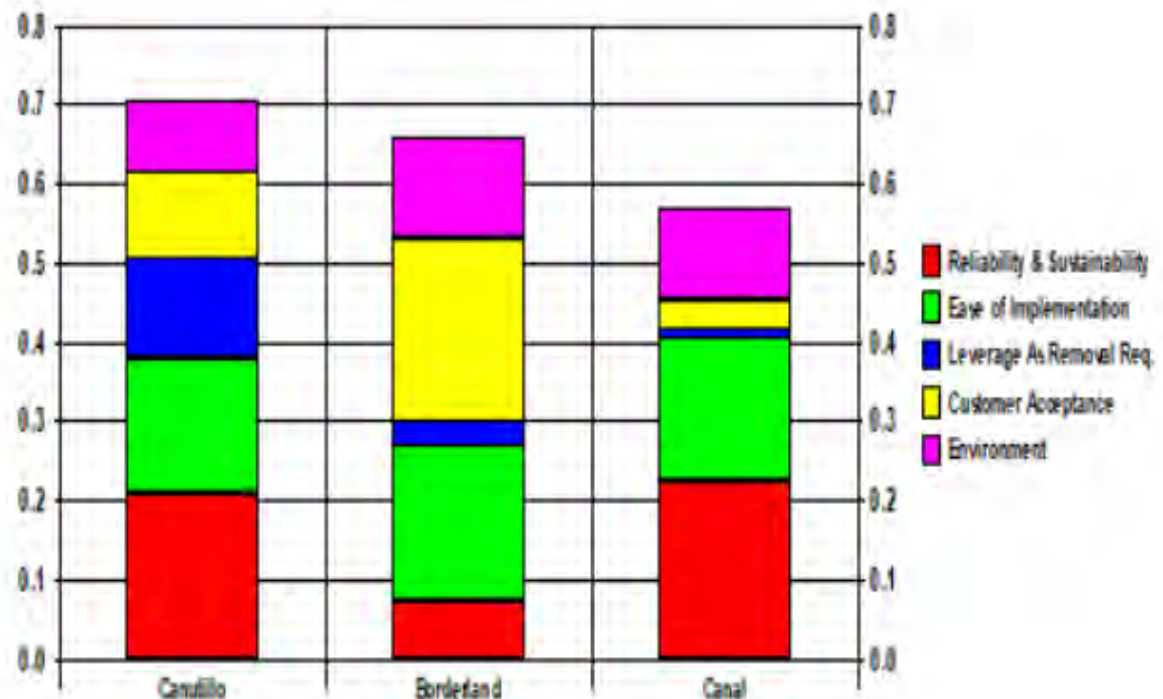

Stillwater Sciences



Daniel B. Stephens & Associates, Inc.

- The DA process (*Multi-Attribute Utility Analysis [MUA]*) facilitates decision-making by allowing consideration of the issues and values that are most important in identifying sustainability alternatives that incorporate participation by Agency officials and stakeholders.
- The goal of the process is to systematically evaluate, compare, and rank alternative sustainability scenarios for a final long-range plan.
- The DA process and model will help us to more efficiently and objectively score (and ultimately select) the most appropriate water management alternatives (or combinations of alternatives) for achieving sustainability

Software: Criterium DecisionPlus for water management decision support.



Value Added:

- Ensures stakeholder involvement in the decision process
- Builds consensus around goals and performance measures that reflect but also separate values and technical input
- Outcome is not predetermined
- Projects and management actions may be combined into different planning approaches
- Should be implemented after initial stakeholder engagement meetings are completed and when initial technical results are available

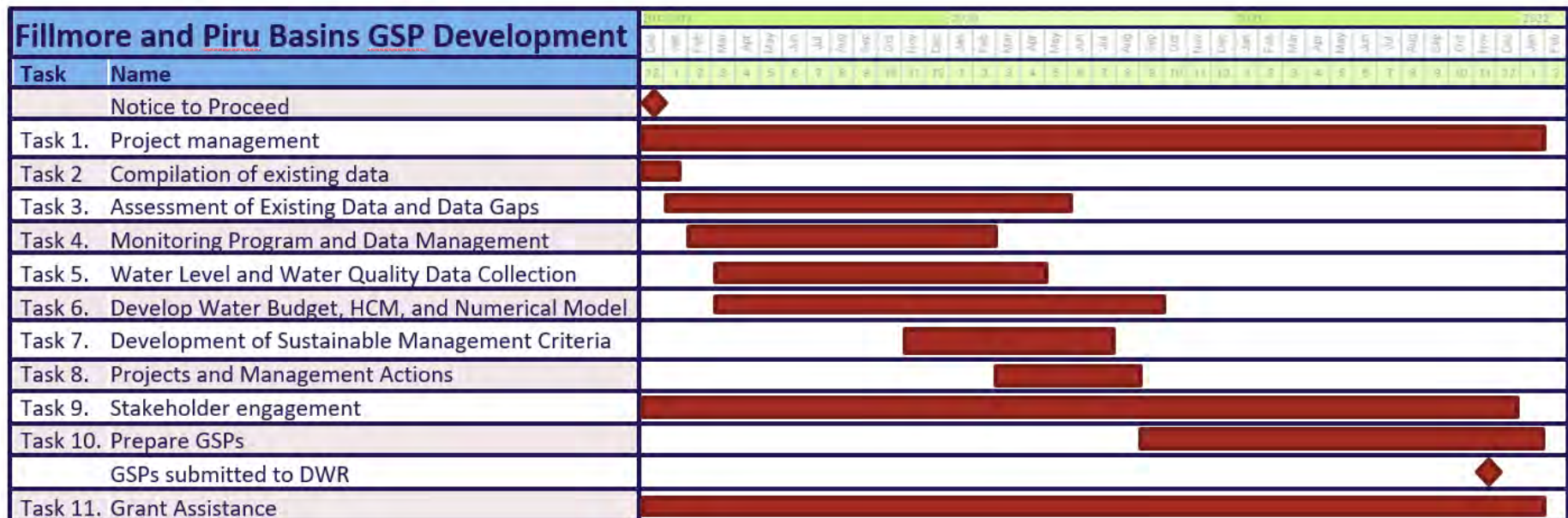
Wide applicability for complex problems:

- River basin management: allocation of surface water for irrigation
- Water resource management strategy with significant litigation risks
- Contaminated sediment management alternatives
- Decommissioning offshore O&G platforms
- Siting nuclear plants / military / industrial activity
- Bomb detection method selection for FAA
- Selection of imaging techniques for breast cancer



Estimated Project Schedule

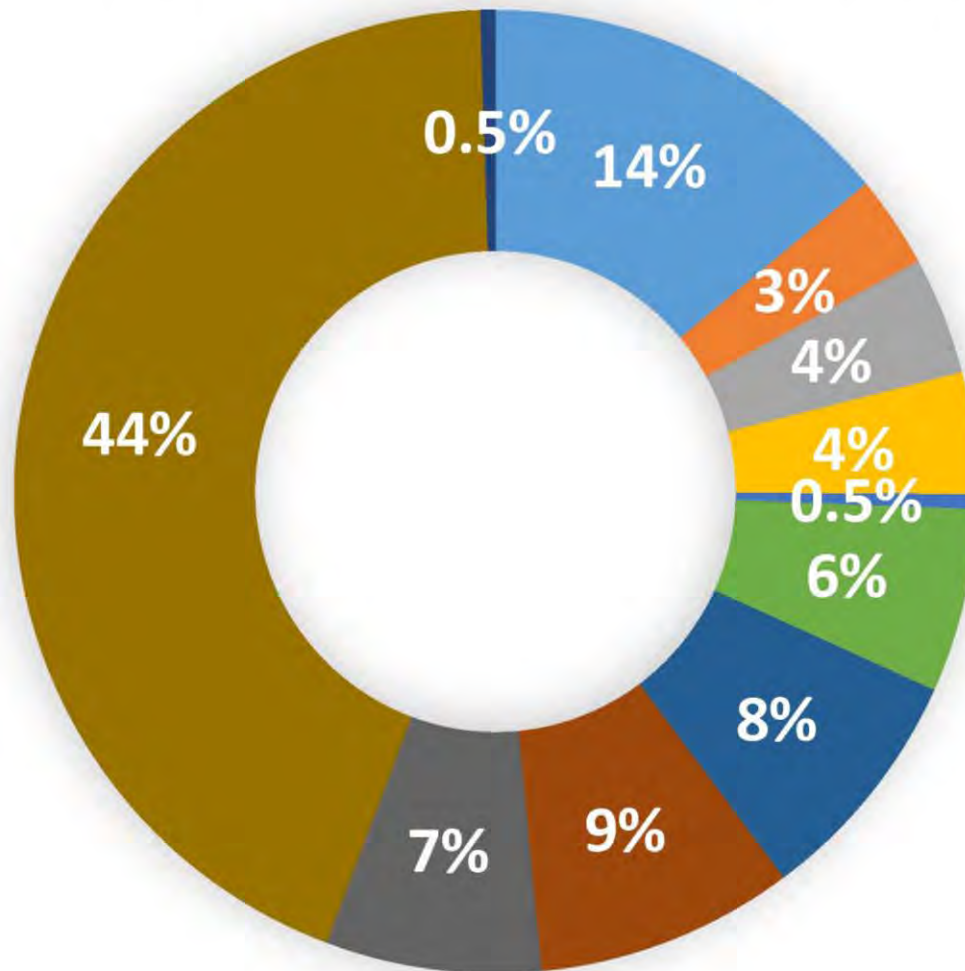
Many critical elements of the GSPs will be prepared by UWCD, so we have built UWCD's assumed milestones into our schedule. It will be important that DBS&A and UWCD work in tandem and that all parties achieve identified milestones in order to meet the DWR deadline.



TEAM EFFORT



Cost Estimate Summary



- 1.0 Project Management
- 2.0 Compilation of Existing Data
- 3.0 *Assessment of Existing Data and Data Gap Analysis
- 4.0 Monitoring Program and Data Management Systems
- 5.0 Water Level and Water Quality Data Collection and Analysis
- 6.0 Develop Water Budget, Hydrogeologic Conceptual Model, and Numerical Flow Model
- 7.0 Development of Sustainable Management Criteria
- 8.0 Projects and Management Actions
- 9.0 Stakeholder Engagement
- 10.0 Prepare Groundwater Sustainability Plan
- 11.0 Grant Assistance





Lowering
GW Levels



Reduction
of Storage



Seawater
Intrusion



Degraded
Quality



Land
Subsidence



Surface Water
Depletion

California Department of Water Resources, 2016

Thank You

Tony Morgan, P.G., C.HG.

Vice President / Principal Hydrogeologist, DBS&A

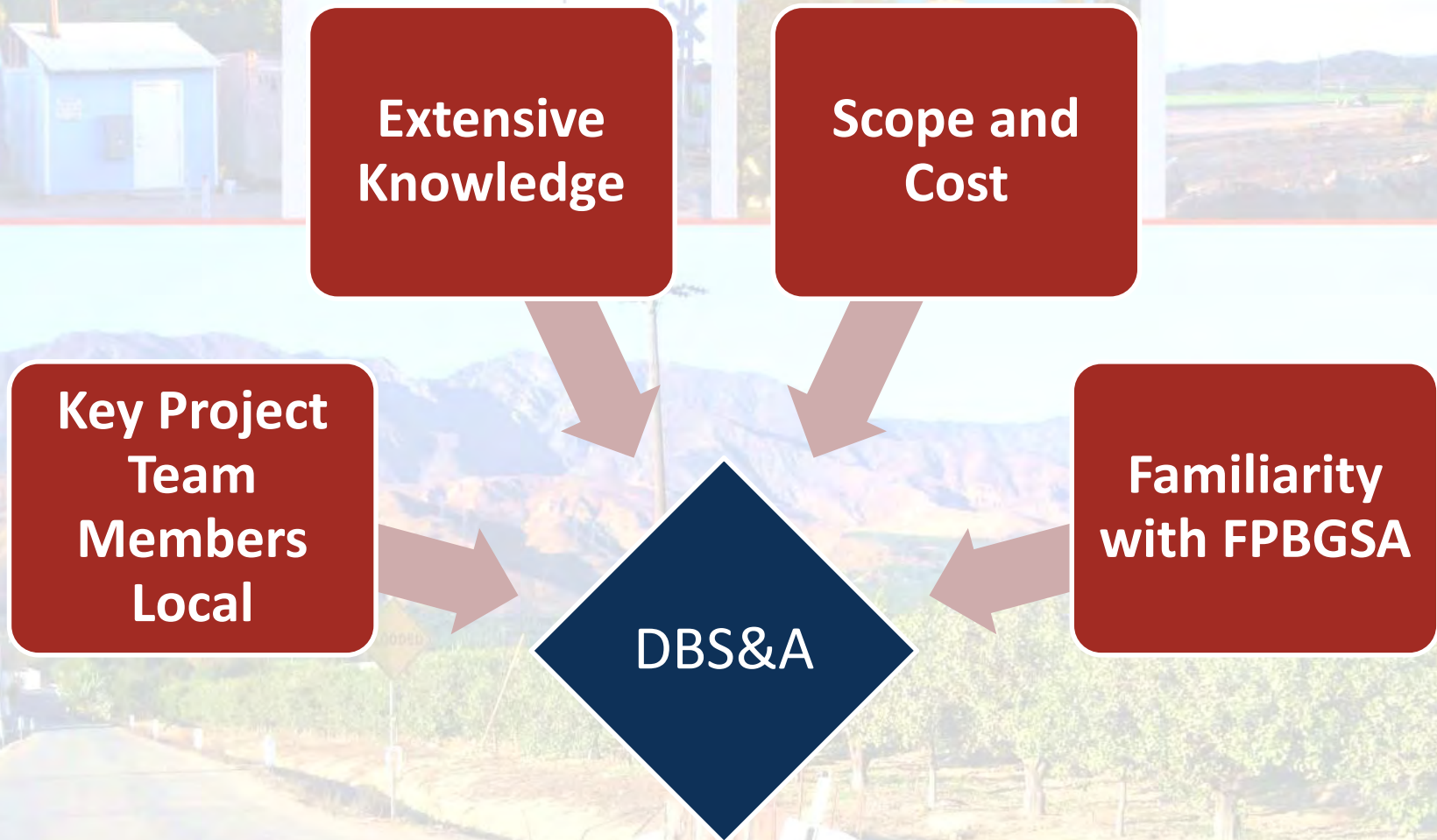
3916 State Street, Suite 1A, Santa Barbara, CA 93105

tmorgan@geo-logic.com

O. (805) 683-2409 x1403 C. (805) 290-3862



Daniel B. Stephens & Associates, Inc.



Prepared for



PO Box 1110
Fillmore, CA 93016

Prepared by



DBS&A
Daniel B. Stephens & Associates, Inc.

3916 State Street, Suite 1A
Santa Barbara, California 93105

DBS&A Sub-Contractor Labor rates

CCP - Budget Detail

	Managing Senior Mediator	Assistant Facilitator II	Lead Mediator	Information Technology Support	Associate Mediator	Admin Support		
	Ceppos	Staff	Ballin	Staff	Meyer	Staff	Task total	Task total w/ markup
	\$208	\$93	\$163	\$93	\$163	\$92		
1.0 Project Management	12	12				0.5	\$ 3,658.00	\$ 4,064.44
2.0 Compilation of Existing Data							\$ -	\$ -
3.0 Assessment of Existing Data and Data Gap Analysis							\$ -	\$ -
4.0 Monitoring Program and Data Management Systems							\$ -	\$ -
5.0 Water Level and Water Quality Data Collection and Analysis							\$ -	\$ -
6.0 Develop Water Budget, Hydrogeologic Conceptual Model, and Numerical Flow Model							\$ -	\$ -
7.0 Development of Sustainable Management Criteria							\$ -	\$ -
8.0 Projects and Management Actions							\$ -	\$ -
9.0 Stakeholder Engagement	28	255				27	\$ 32,023.00	\$ 35,581.11
10.0 Prepare Groundwater Sustainability Plan							\$ -	\$ -
11.0 Grant Assistance							\$ -	\$ -
12.0							\$ -	\$ -
13.0							\$ -	\$ -
14.0							\$ -	\$ -
15.0							\$ -	\$ -
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19.0							\$ -	\$ -
20.0							\$ -	\$ -
21.0							\$ -	\$ -
22.0							\$ -	\$ -
23.0							\$ -	\$ -
Subtotal	40	267	0	0	0	27.5	\$ 35,681	\$ 39,646
Total including Markup	<div> <div>10%</div> <div>334.5</div> </div>						\$ 35,681 Labor	
							\$ 1,319 ODCs + Indirect Costs	
							\$ 37,000 Total w/o markup	
							\$ 41,111 total w/markup	



Fillmore and Piru Basins
Groundwater Sustainability Agency

Groundwater Sustainability Plans Preparation for Fillmore Basin and Piru Basin

LARRY
WALKER



ASSOCIATES

Science. Policy.
Solutions.



MONTGOMERY
& ASSOCIATES



RICHARD C. SLADE & ASSOCIATES LLC
CONSULTING GROUNDWATER GEOLOGISTS

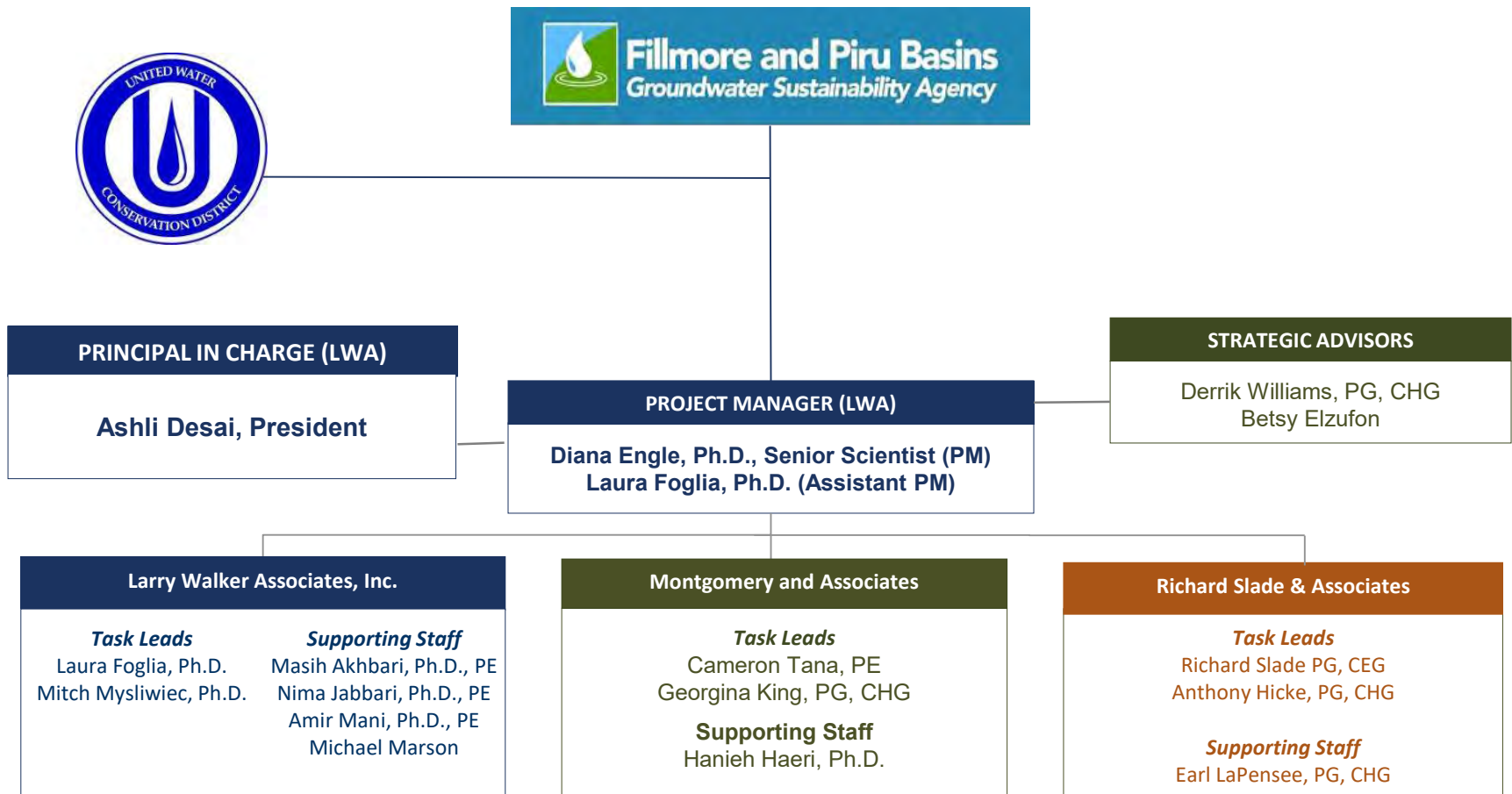
Presentation Overview

- Overview of the Team
- Why the LWA team?
- Project approach: keys to success



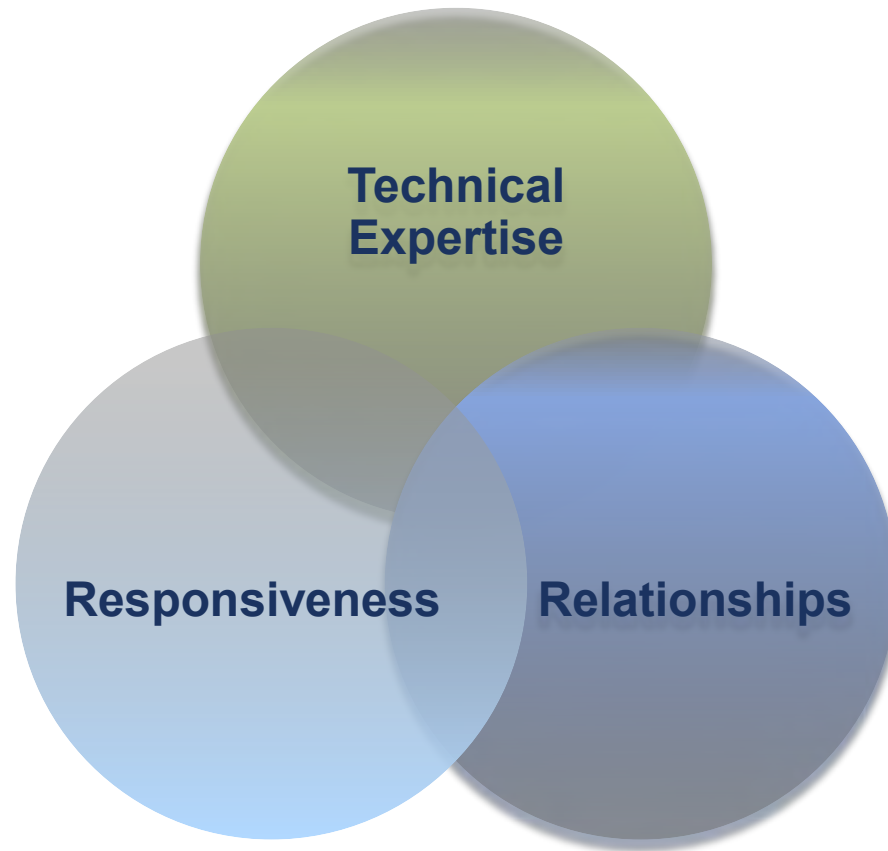
Project Team

Our role is to support the GSA and United to develop a GSP accepted by DWR and local stakeholders



Why the LWA team?

Our team provides the three components necessary to develop an acceptable and implementable GSP



Our team has the technical experience to develop the GSPs



**Technical
Expertise**

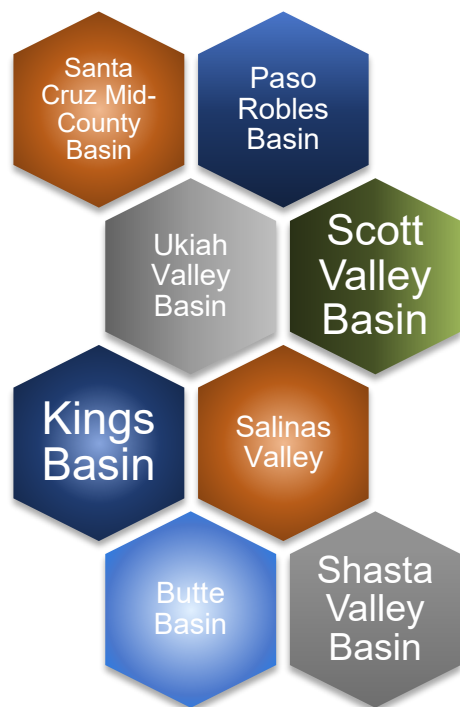
LWA

- GW team with 5 PhDs and 10 geologists and engineers
- Expertise in GW modeling, monitoring and data analysis, climate change impacts, and GW/SW interactions.

Our subcontractors

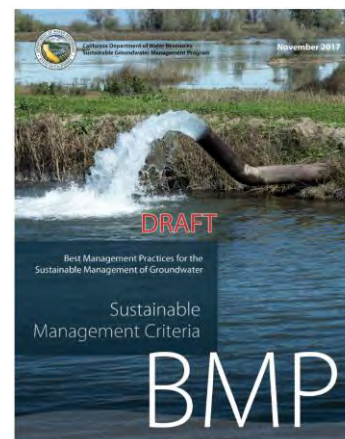
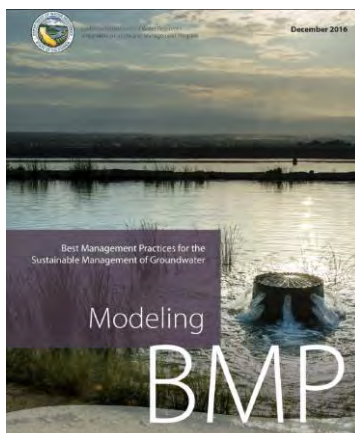
- Groundwater firms with 90+ staff and over 50 years of experience in managing groundwater basins

- We have diverse GSP project experience in many basins

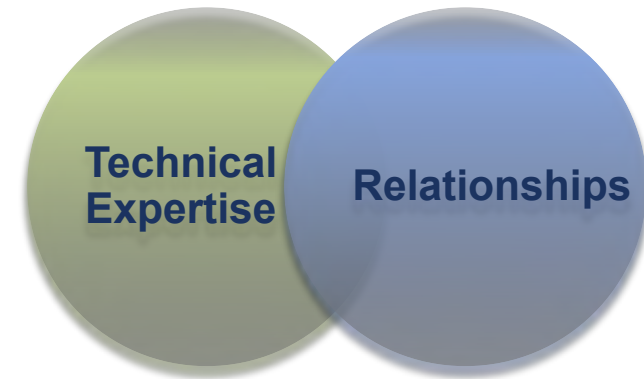


Technical
Expertise

- We developed SGMA *Best Management Practices* for Modeling and Sustainable Management Criteria on behalf of DWR

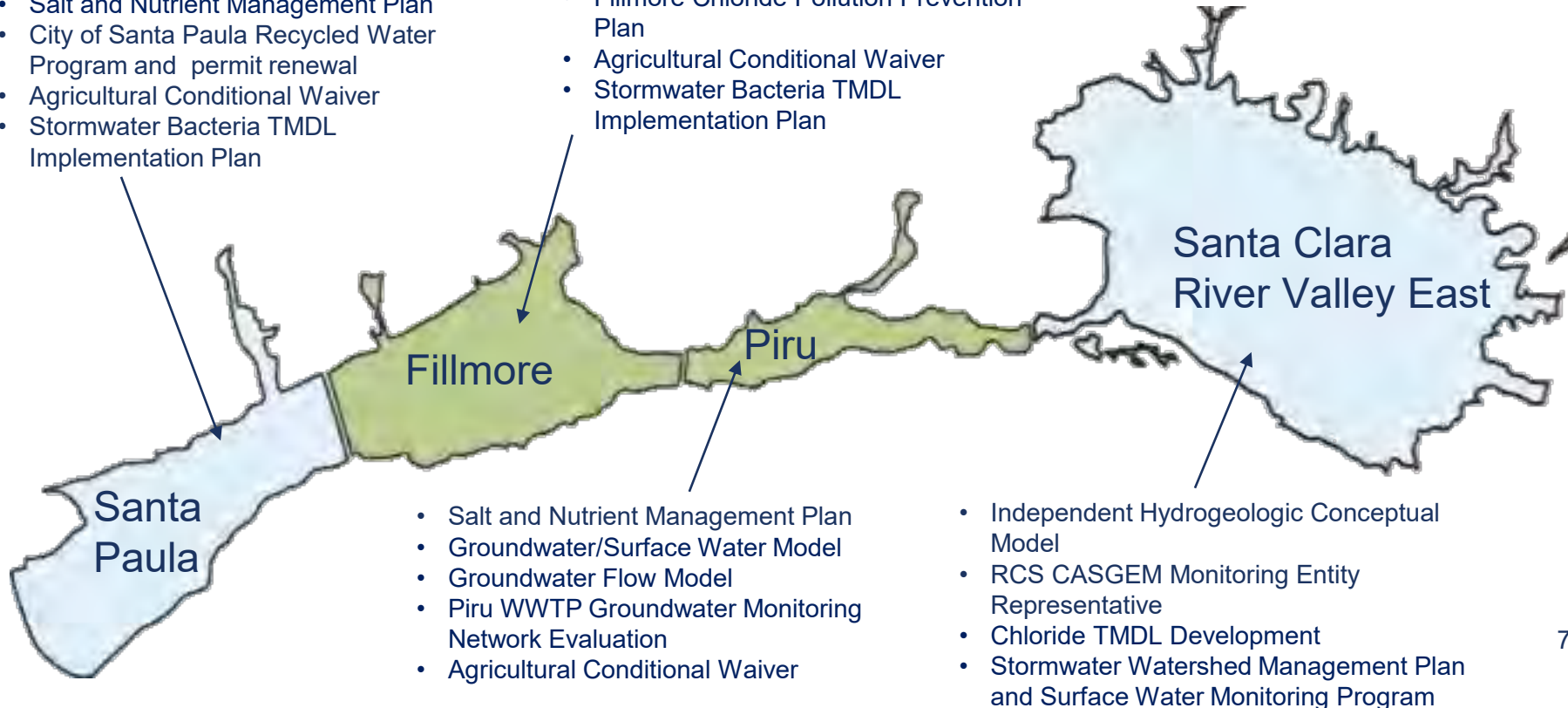


We have strong local technical expertise and relationships



- Independent Hydrogeologic Conceptual Model
- Review of UWCD monitoring network data
- Salt and Nutrient Management Plan
- City of Santa Paula Recycled Water Program and permit renewal
- Agricultural Conditional Waiver
- Stormwater Bacteria TMDL Implementation Plan

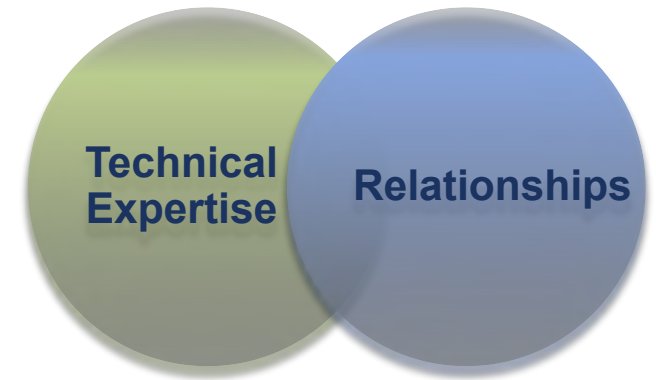
- Salt and Nutrient Management Plan
- Analysis of City Well 9
- Groundwater/Surface Water Model
- Groundwater Flow Model
- Fillmore Chloride Pollution Prevention Plan
- Agricultural Conditional Waiver
- Stormwater Bacteria TMDL Implementation Plan



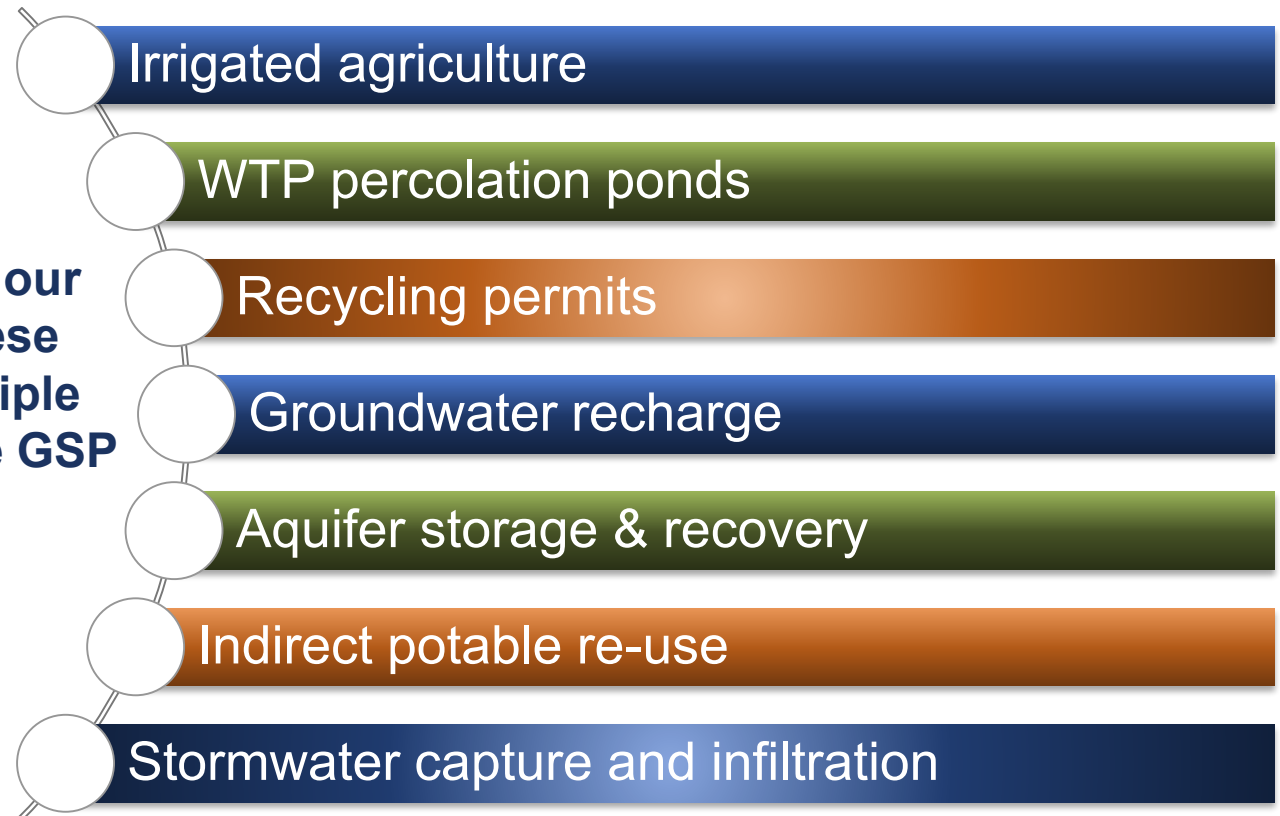
- Salt and Nutrient Management Plan
- Groundwater/Surface Water Model
- Groundwater Flow Model
- Piru WWTP Groundwater Monitoring Network Evaluation
- Agricultural Conditional Waiver

- Independent Hydrogeologic Conceptual Model
- RCS CASGEM Monitoring Entity Representative
- Chloride TMDL Development
- Stormwater Watershed Management Plan and Surface Water Monitoring Program

We understand the nexus between SGMA and other regulatory requirements



We can leverage our experience in these areas to get multiple benefits from the GSP



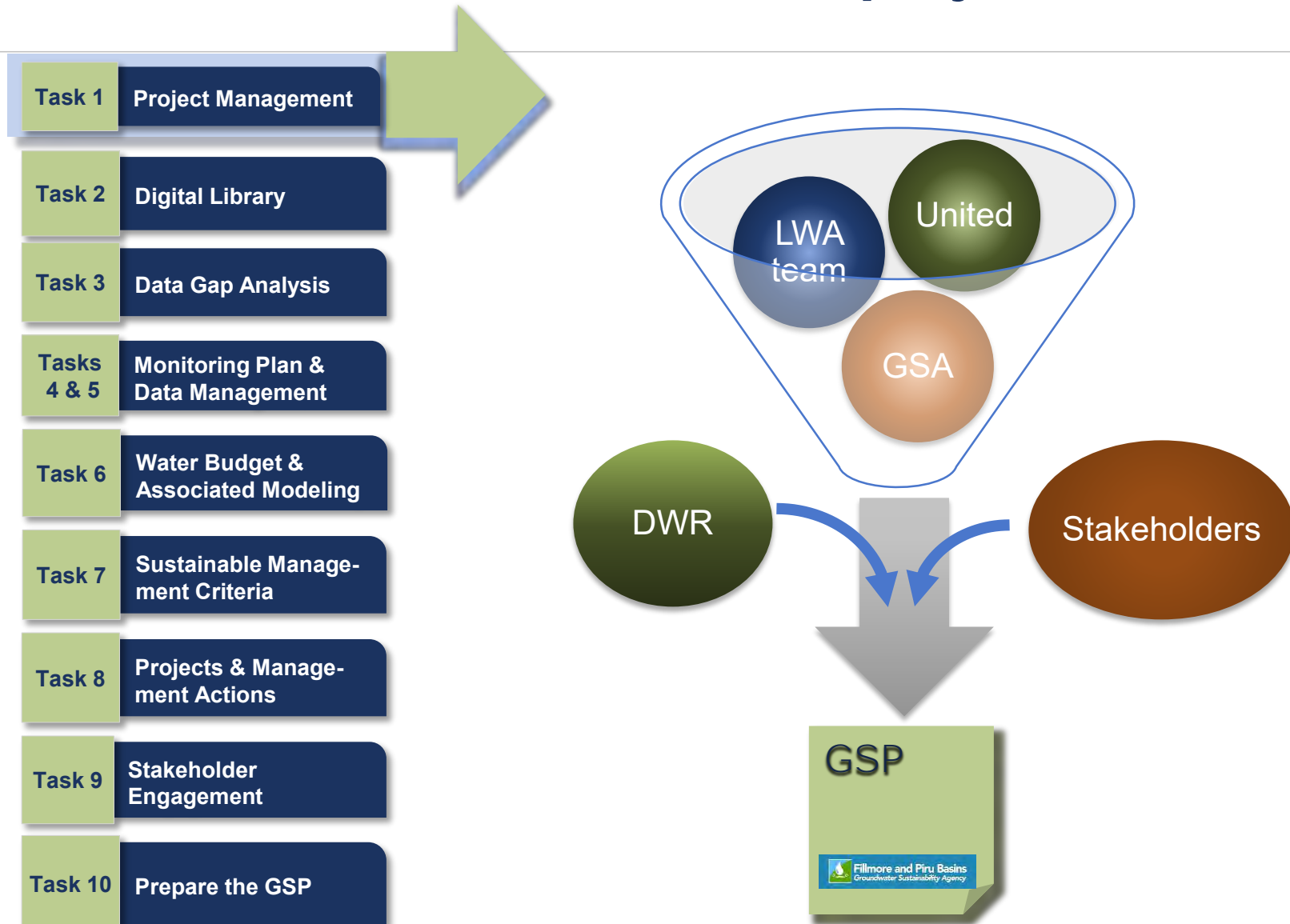
Responsiveness is important

Responsiveness

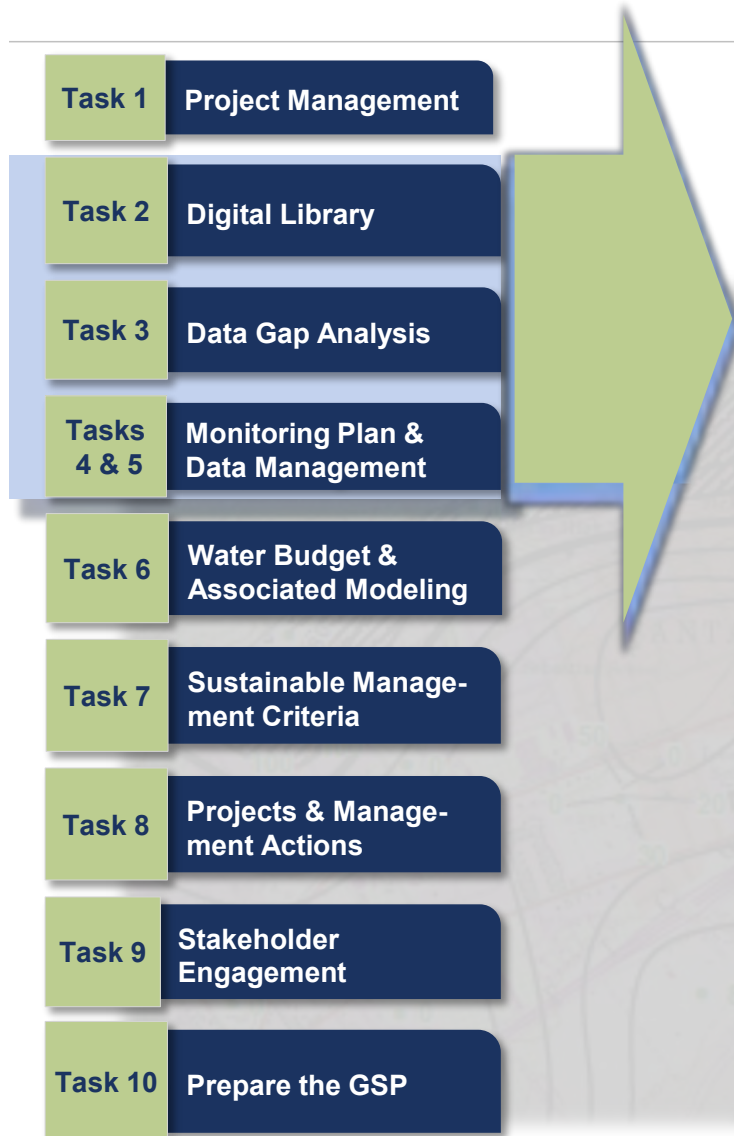


- **Responsive to:**
 - **GSA**
 - **Stakeholders**
 - **Requirements of SGMA**
- **We can adapt!**
- **We don't want to waste your time!**

We understand our role in the project!

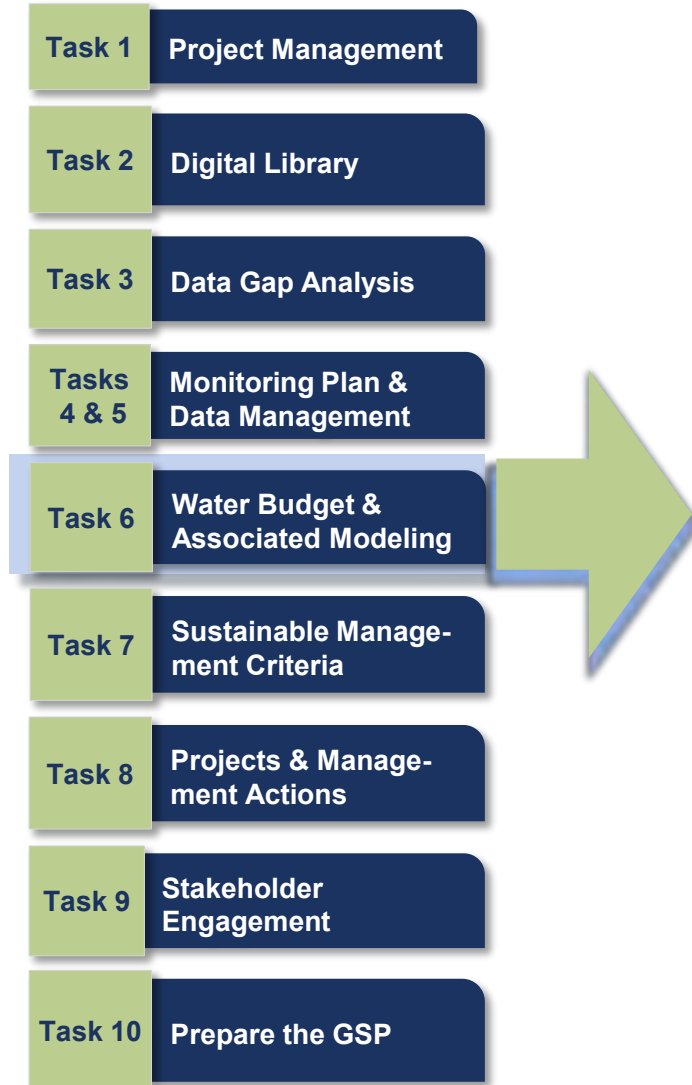


We are familiar with the datasets and existing monitoring programs



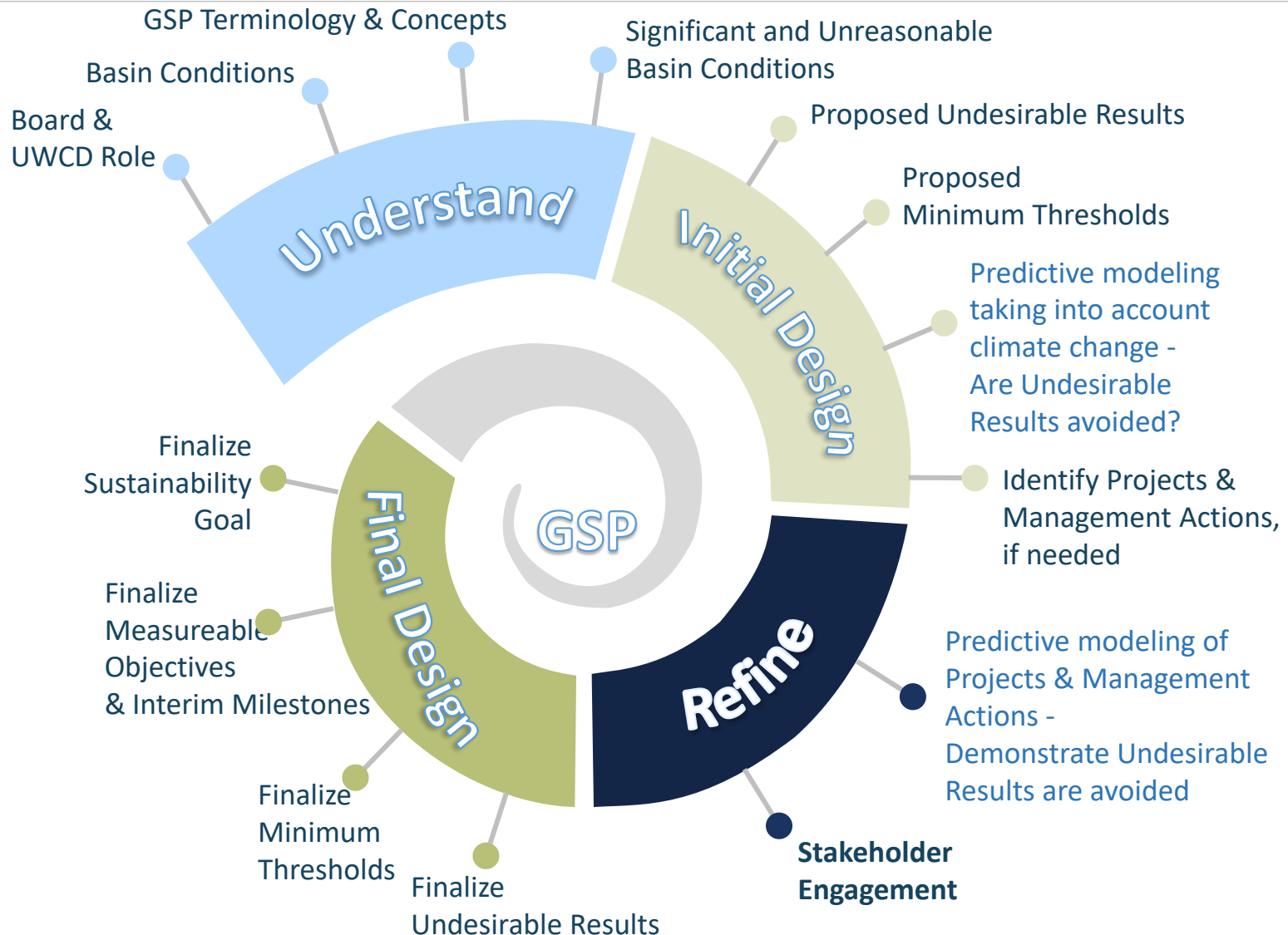
- Richard Slade & Associates is experienced in evaluating and parsing large UWCD datasets
- Lots of monitoring ongoing in the basin – (UWCD/CASGEM, SNMP, VCAILG etc.)
- Our monitoring plan will not “re-invent the wheel”
 - We’ll focus on using EXISTING monitoring for GSP purposes.
 - Richard Slade & Associates used similar approach for CASGEM and SNMPS in other basins

We have the necessary expertise and local knowledge to use groundwater models to effectively supplement the GSP



- We understand United's role on modeling
- We are very comfortable working with United on modeling projects as we have done so on several projects in the past
- We would like early involvement with model development to be able to plan how to use model output to develop sustainability criteria needed for the GSP
- The model is important - we will rely on the model to determine if all sustainability criteria can be met

We have experience developing Sustainable Management Criteria and identifying projects & management actions to achieve sustainability



We know how to effectively gather and use stakeholder input

Task 1 Project Management

Task 2 Digital Library

Task 3 Data Gap Analysis

Tasks 4 & 5 Monitoring Plan & Data Management

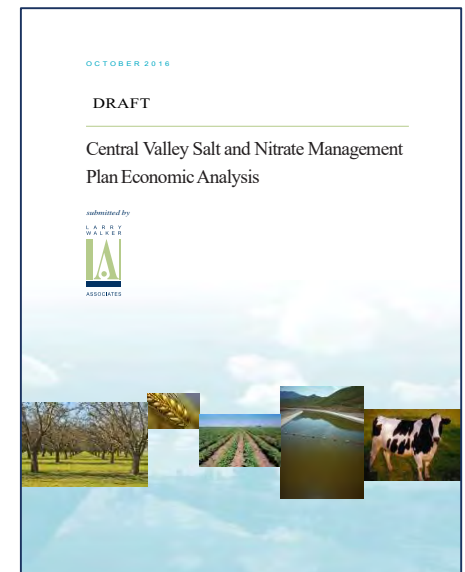
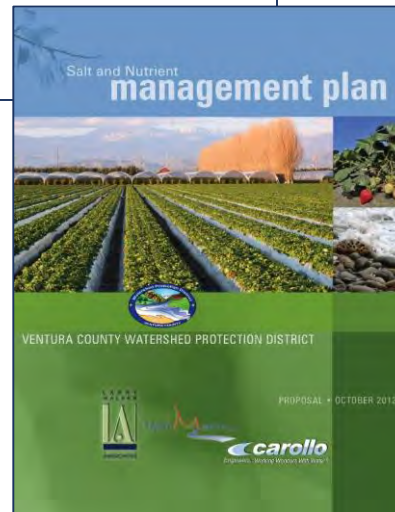
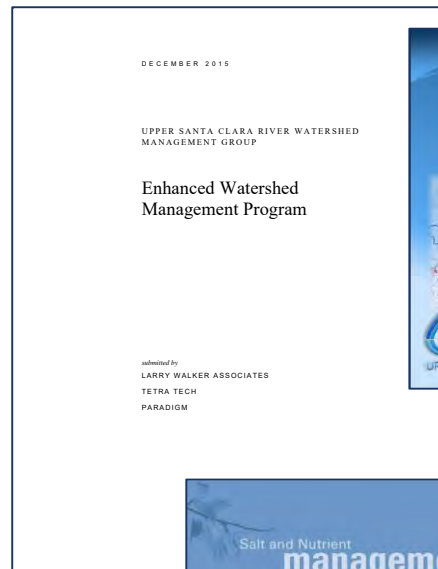
Task 6 Water Budget & Associated Modeling

Task 7 Sustainable Management Criteria

Task 8 Projects & Management Actions

Task 9 Stakeholder Engagement

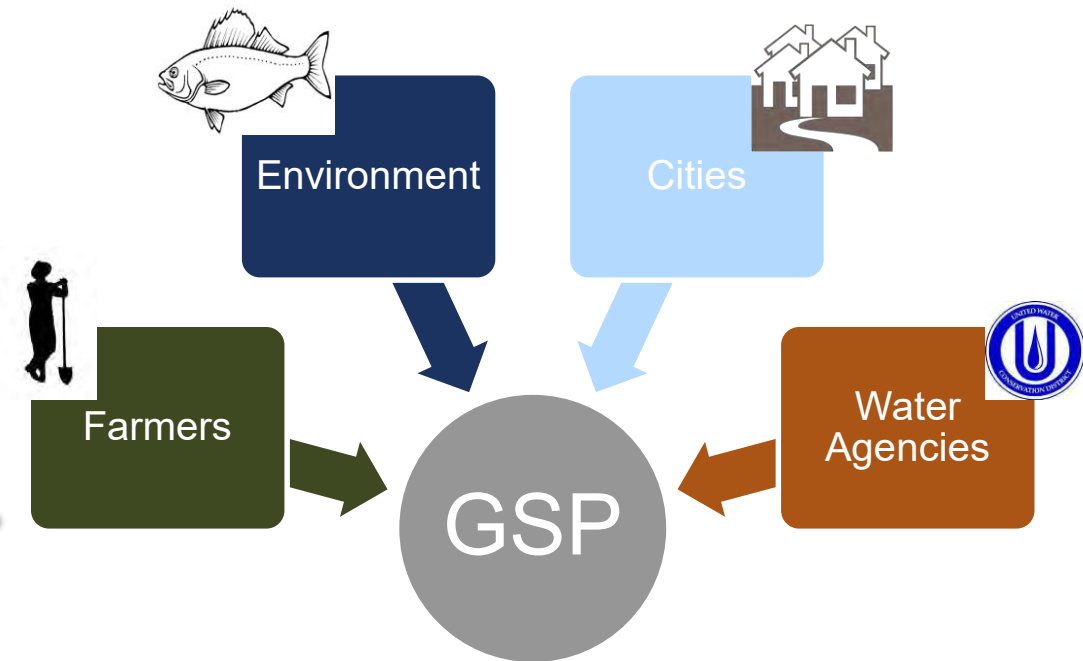
Task 10 Prepare the GSP



We know how to effectively gather and use stakeholder input



We have developed targeted, understandable materials that result in meaningful input



Why the LWA team?

Our team brings a unique skill set

- Extensive **experience** developing similar types of plans
- Excellent understanding of **DWR requirements**
- Team members with **unique perspectives**
- **Broad understanding** of constraints and conditions in the planning area
- **Technical expertise** to create a useful GSP



Questions?



Thank you!

Update on DWR Basin Boundary Modifications

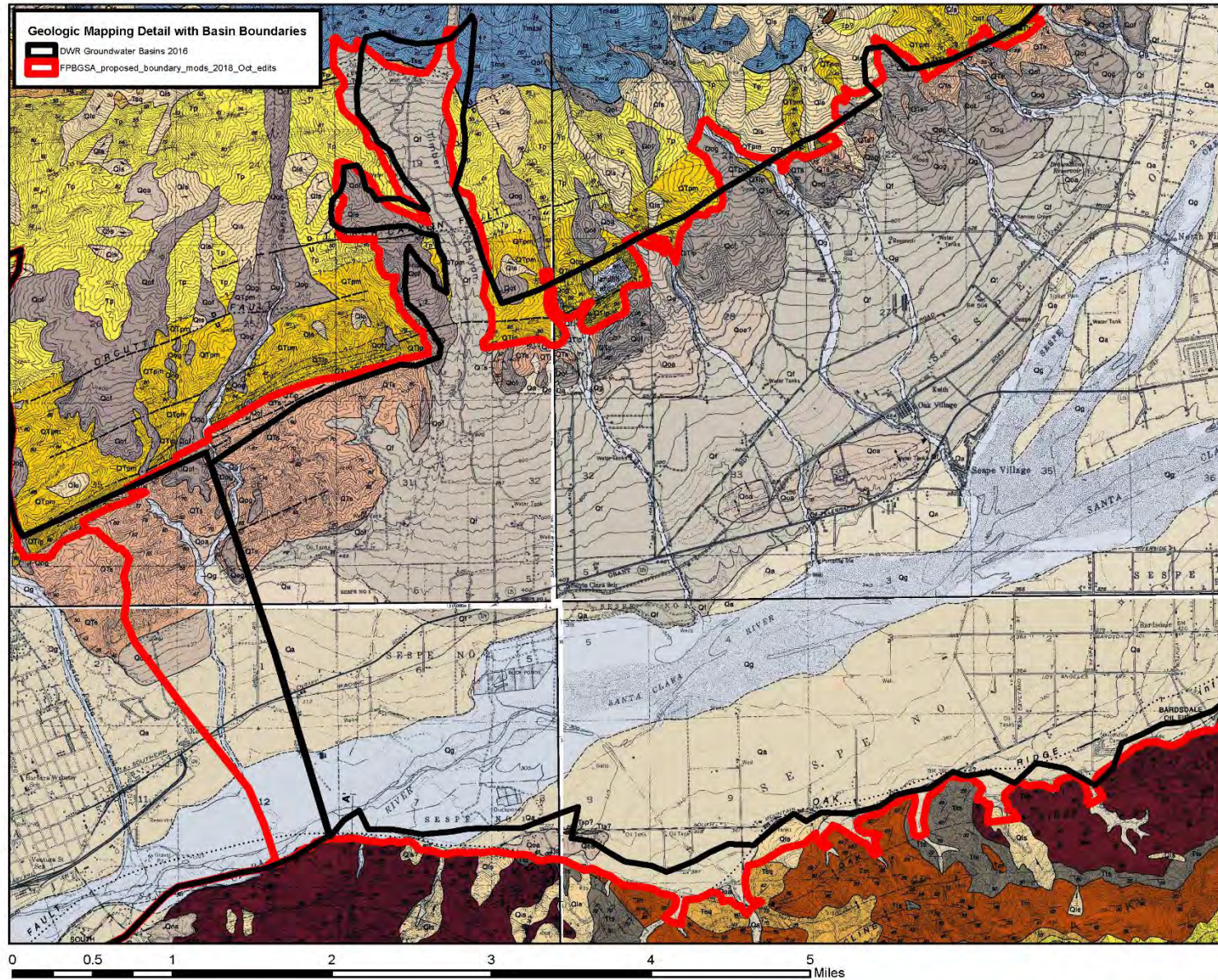
DWR Basin Boundary Modifications:

- ❑ United worked with DWR staff in early 2018 to redraw Piru and Fillmore boundaries, following original DWR criteria (but with improved accuracy)
- ❑ Most edits were technical in nature (following geologic contacts)
- ❑ Western Fillmore basin boundary has a technical basis, but snaps to a jurisdictional boundary
- ❑ DWR requested additional justifications for proposed boundaries on October 9

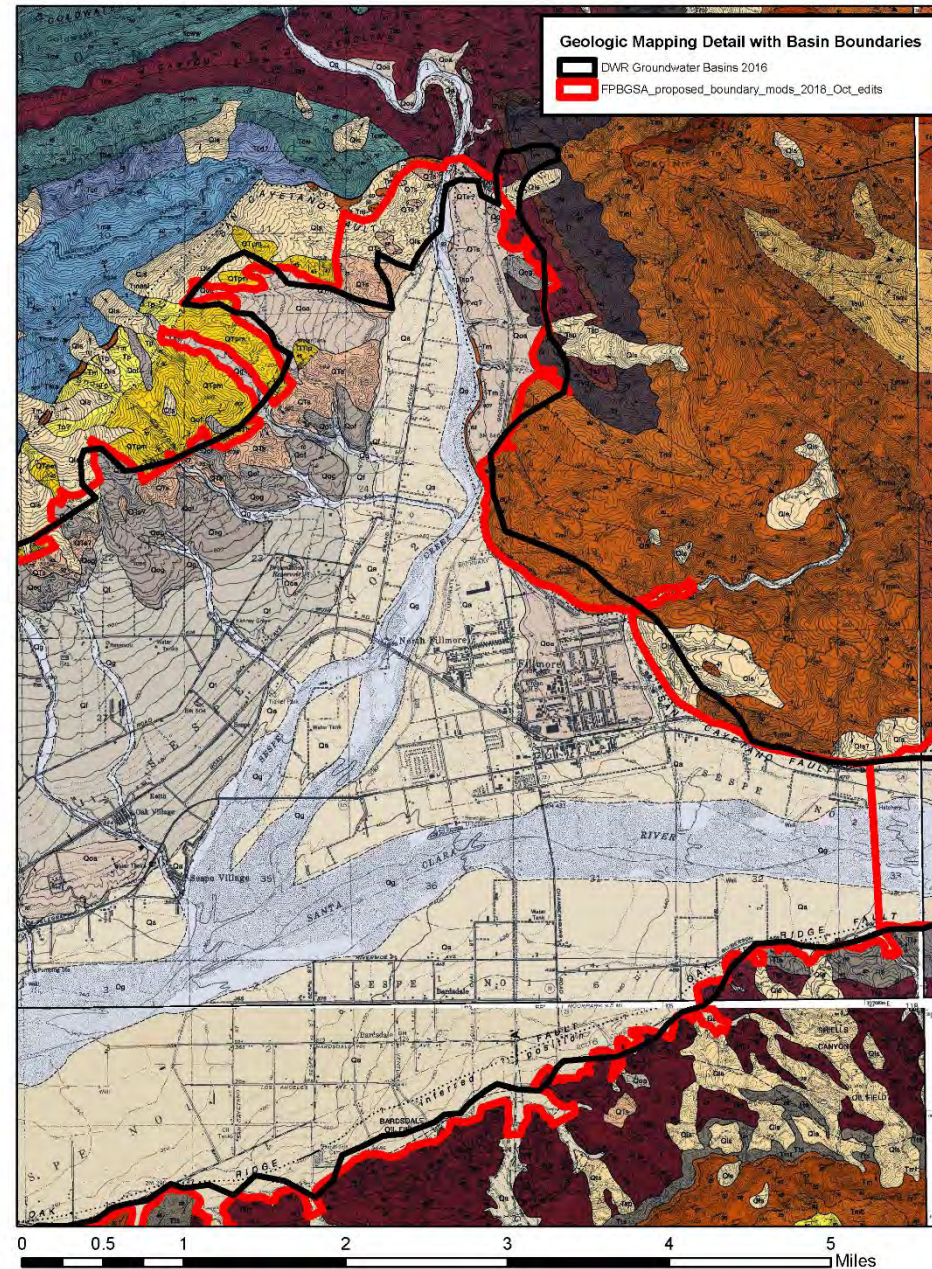
DWR Basin Boundary Modifications:

- ❑ On October 29 the DWR review panel expressed a strong preference for including alluvium around margins of the basin
- ❑ Mapped alluvium could be excluded if thought to be < 25 feet thick, unsaturated, non-water-bearing or structurally isolated from the basin
- ❑ Landslide deposits could be excluded
- ❑ UWCD edited the proposed basin boundaries and resubmitted to DWR on October 30

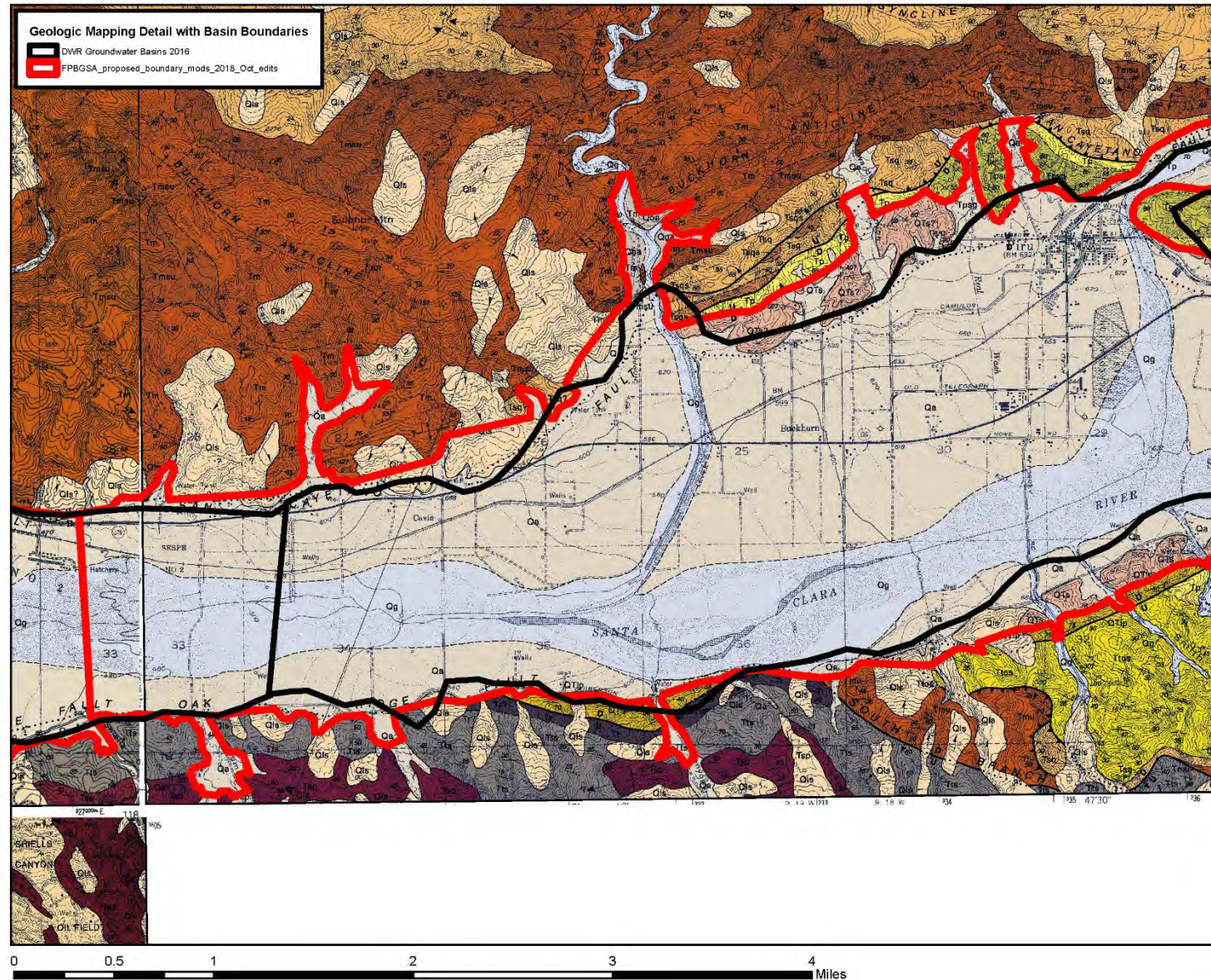
Basin Boundary Modification: Western Fillmore



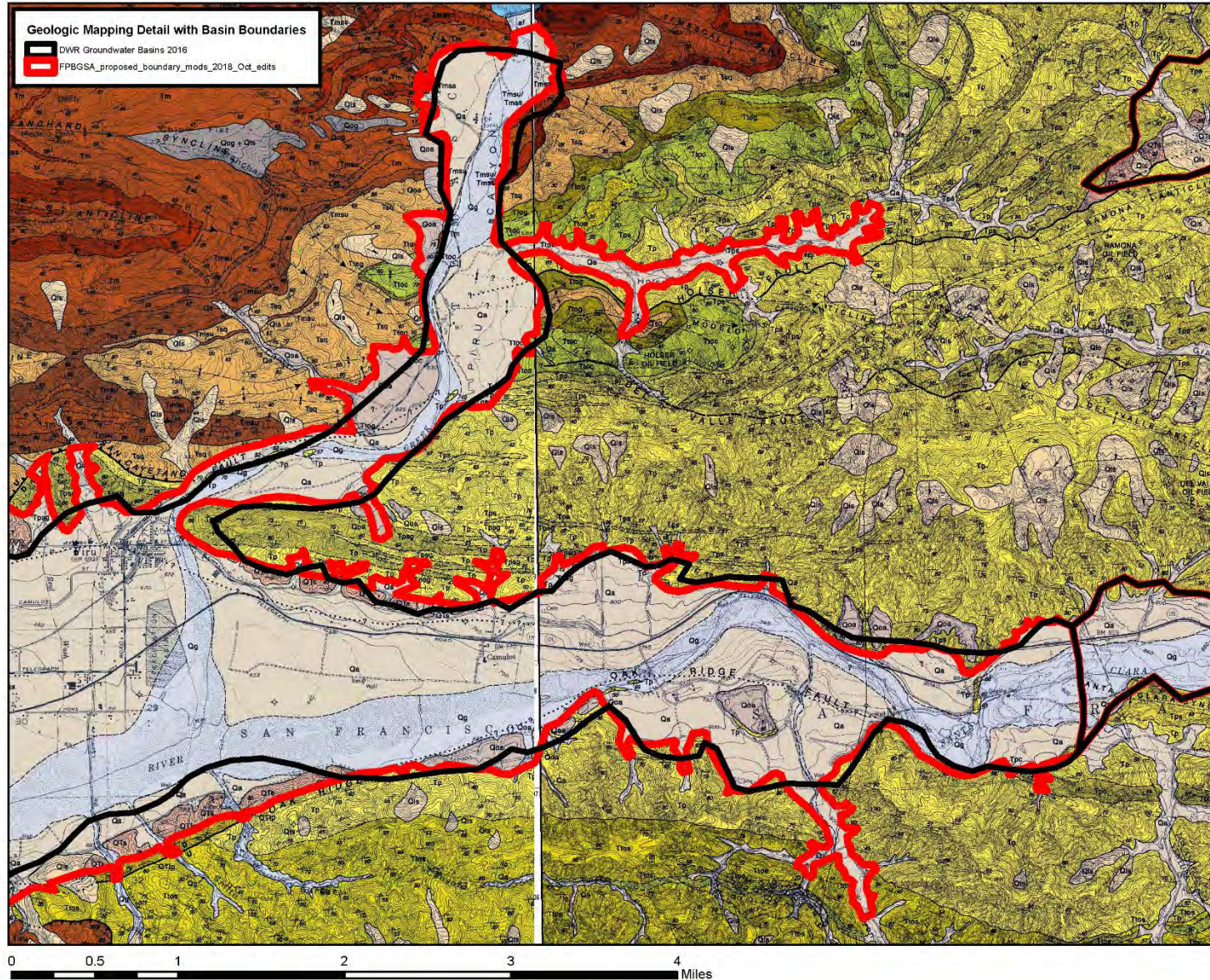
Basin Boundary Modification: Western Fillmore



Basin Boundary Modification: Western Piru



Basin Boundary Modification: Eastern Piru



DWR Basin Boundary Modifications:

- ❑ DWR review panel recommended approval of recent version of proposed basin boundaries, forwarded recommendation to DWR Director
- ❑ Additional areas now proposed to be within the basins, notable areas include Holser Canyon, Tapo Canyon, lower Hopper Canyon
- ❑ United will evaluate what additional wells are now included in the basins (compared to the July 2018 boundary proposal)